International application No. PCT/AU2004/001170

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7: H01L 31/052, H02N 6/00 According to International Patent Classification (IPC) or to both national classification and IPC В. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: (H01L or H02N or F24J) and (PHOTOVOLT or SOLAR or SUN or PHOTOCELL) and {[(COOL+ or (TEMP or HEAT)(4D)(REDUC+ or CONDUCT+ or CARR+ or EXTRACT+ or TRANSFER+ or LOWER+ or DISSIPAT+ or REMOV+ or EXCHANG+))] or [ ((SURFACE AREA) or POROUS or LABYRINTH? or HOLES or GAPS or RANDOM or CONVOLUT+ or PASSAGE+ or PATHWAYS or CHANNELS]) or [(BEADS or RODS or BARS or BALL+ or SHAPE+ or MASS+ or PILE+)] } and (WELD+ or SINTER+ or MOULD+ or HEAT+ or MELT+) and (COOLANT or (COOL+(4D)(FLUID or LIQUID)) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A WO 1996/007857 A (REKSTAD)14 March 1996 US 5 092 767 A (DEHLSEN) 3 March 1992 A A GB 1 541 221 A (DRAKE) 28 February 1979 WO 2001/094006 A (ABB LUMMUS GLOBAL, INC) 13 December 2001 A WO 1999/009356 A (MAYRHOFER) 25 February 1999 Α WO 2002/080286 A (SOLAR SYSTEMS PTY LTD) 10 October 2002 See patent family annex Further documents are listed in the continuation of Box C Special categories of cited documents: document defining the general state of the art which is later document published after the international filing date or priority date and not in not considered to be of particular relevance conflict with the application but cited to understand the principle or theory underlying the invention "E" earlier application or patent but published on or after the "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken international filing date document which may throw doubts on priority claim(s) ۳L document of particular relevance; the claimed invention cannot be considered to or which is cited to establish the publication date of involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition \*&" document member of the same patent family document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 15 OCT 2004 8 October 2004 Name and mailing address of the ISA/AU Authorized officer **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA S. T. PRING E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No: (02) 6283 2210

Information on patent family members

International application No.

PCT/AU2004/001170

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Family Member		
AU 34864/95, (698042)	CA 2 198 897	DE 695 02 957
EP 776 448	JP 10/502728	
NONE		
NONE		
AU 65326/01		
EP 897 090	· AU 87182/98,	JP 2001/515198
US 2004103680	EP 1 374 317	
	(698042) EP 776 448 NONE NONE AU 65326/01 EP 897 090	AU 34864/95, CA 2 198 897 (698042) EP 776 448 JP 10/502728 NONE NONE AU 65326/01 EP 897 090 AU 87182/98,

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

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International application No.

PCT/AU2004/001170

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Α. (	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. 7:	H01L 31/052, H02N 6/00					
According to I	According to International Patent Classification (IPC) or to both national classification and IPC					
B. 1	FIELDS SEARCHED					
Minimum docur	mentation searched (classification system followed by class	ssification symbols)	•			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: (H01L or H02N or F24J) and (PHOTOVOLT or SOLAR or SUN or PHOTOCELL) and {[(COOL+ or (TEMP or HEAT)(4D)(REDUC+ or CONDUCT+ or CARR+ or EXTRACT+ or TRANSFER+ or LOWER+ or DISSIPAT+ or REMOV+ or EXCHANG+))] or [ ((SURFACE AREA) or POROUS or LABYRINTH? or HOLES or GAPS or RANDOM or CONVOLUT+ or PASSAGE+ or PATHWAYS or CHANNELS]) or [(BEADS or RODS or BARS or BALL+ or SHAPE+ or MASS+ or PILE+)] } and (WELD+ or SINTER+ or MOULD+ or HEAT+ or MELT+) and (COOLANT or (COOL+(4D)(FLUID or LIQUID))						
<b>C.</b> 1	DOCUMENTS CONSIDERED TO BE RELEVANT		• .			
Category*	Citation of document, with indication, where appro	opriate, of the relevant passages	Relevant to claim No.			
A	WO 1996/007857 A (REKSTAD)14 March 1	996				
A	US 5 092 767 A (DEHLSEN) 3 March 1992					
<b>A</b> .	GB 1 541 221 A (DRAKE) 28 February 1979					
A	WO 2001/094006 A (ABB LUMMUS GLOBAL, INC) 13 December 2001					
A	WO 1999/009356 A (MAYRHOFER) 25 February 1999					
A	WO 2002/080286 A (SOLAR SYSTEMS PTY LTD) 10 October 2002					
F	urther documents are listed in the continuation	of Box C X See patent family anno	ex			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the invention  "E" action documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel						
	ational filing date  declination of particular forevaries, the claimed invention cannot be considered to involve an inventive step when the document is taken alone					
or which	which may throw doubts on priority claim(s)  "Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other steer citation or other special reason (as specified)  "Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"O" documen	ther means  such document member of the same patent family					
"P" document published prior to the international filing date but later than the priority date claimed						
Date of the actual completion of the international search  Date of mailing of the international search report						
	October 2004  Iame and mailing address of the ISA/AU  Authorized officer					
AUSTRALIAN PATENT OFFICE						
	PO BOX 200, WODEN ACT 2606, AUSTRALIA B-mail address: pct@ipaustralia.gov.au  S. T. PRING					
		Telephone No: (02) 6283 2210				

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WO 2001/094006	AU 65326/01		
WO 1999/009356	EP 897 090	AU 87182/98,	JP 2001/515198
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